PIC Millennium Board
Farnell Order Code 120-030

The PIC Millennium Board has evolved from numerous PIC Training Workshops, the Microchip University Training Program and customer feedback.

I have tried to cover most of the basic requirements for starting PIC based projects and the accompanying disk includes some worked examples which can be used with this board – additional software projects will become available on our web-site in due course.

Assemble the board ensuring the correct polarity of LED's (longer lead to the right of the board), transistors and IC's. The turned pin connector strips are intended for interconnection between the PIC I/O lines and the board peripherals via the solid core wire provided.

When using the plug in Oscillator modules - note the orientation on the board.

If high currents are drawn by your application, add a heatsink to the regulator. Note the PIC can sink a maximum of 25mA on a pin or 100mA for the whole device.

Power input to the board should be from a 9 to 12V isolated and fused supply with the inner pin as positive.

Communication based projects can use either 2 independent RS232 ports COMM 1 & 2 or a full TX, RX, CTS, RTS mode (COMM1) – you will need to add any handshaking in software as the PIC will only provide the TX and RX as standard. TX1 and RX1 drive through to TX and RX on COMM1 and TX2 and RX2 drive both the TX and RX of COMM2 and CTS, RTS on COMM1. Take care when using multiple Comm ports in case of conflicts on the D9 COMM1 connector.

ICSP (in circuit serial programming) capability has been provided, but it is up to you as the user to ensure this mode functions correctly with your ICSP programmer.

The LCD display is a 16 character by 2-line type using the industry standard HD44780. The display can be controlled in a number of various modes from a 6 wire to an 11-wire interface – depending on your other I/O limitations. The simplest interface is a 4 wire data and 2 control lines. The enclosed example on disk is written for the full interface and forms an include file which can be used with any program – with slight modification.

The PIC Millennium Board is also available pre-assembled – order code **324-9505**

Bluebird Electronics
Suite 2, Townsend Barn
Poulshot, Devizes. SN10 1SD
Tel +44 (0) 1380 827080 Fax +44 (0) 1380 827082
internet www.bluebird-electronics.co.uk email info@bluebird-electronics.co.uk